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MAKE THIS TABLE LAMP

FOR BETTER LIGHT

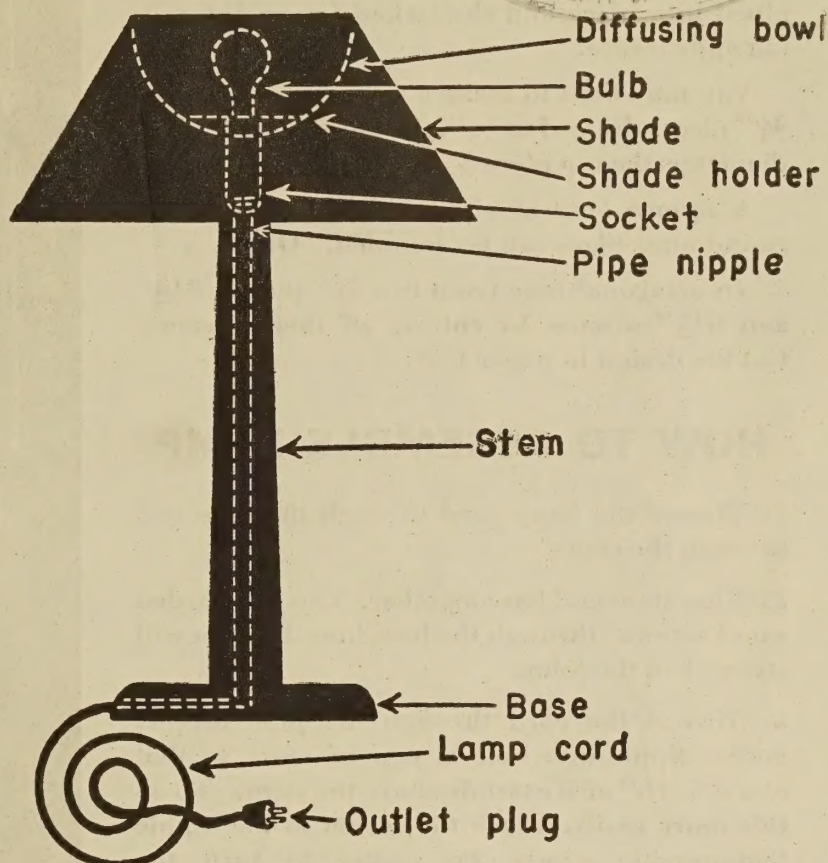
A properly designed table lamp in your home makes reading, studying, and sewing easier and more comfortable. It conserves eyesight, saves energy, and gives your room new attractiveness. You can make one, cheaply and easily, with materials readily available.

You Need These Materials

- 2 1" x 2" x 18" (from 1" x 2" x 36" lumber) for stem of lamp
- 2 $\frac{3}{4}$ " x 8" x 8" (from $\frac{3}{4}$ " x 8" x 16" lumber) for lamp base
- 1* Lamp socket with switch (threaded for $\frac{1}{8}$ " pipe)
- 1 $\frac{1}{8}$ " pipe nipple 1" or 1 $\frac{1}{2}$ " long (to fit socket above)
- 1 Shade holder to fit socket (supports diffusing bowl)
- 1 Diffusing bowl (8" for 100-watt or 9 $\frac{3}{8}$ " for 150-watt bulb)
- 1 Shade (white lined with bottom diameter 16" to 18")
- 1 100-watt or 150-watt bulb
- 1 Lamp cord 9-foot (not smaller than No. 18 AWG UL approved conductor)
- 1 Outlet plug (preferably of rubber, easy to grasp)
- 2 No. 10 wood screws; glue for wood, fine sandpaper, tools.

*Be sure to buy a socket with a three-position switch if you use a 3-light bulb (50-100-150-watt).

First read the directions from start to finish. Better examine the sketch closely as you read.



STEPS IN MAKING A BASE AND STEM

BASE. The base is made of two flat pieces each $\frac{3}{4}$ " thick (before planing and sandpapering) glued together.

Follow the steps below in making the base. The lower piece should be 8" square, and the upper piece 7 $\frac{1}{2}$ " square.

1. Cut the pieces to dimensions given above—plane and sandpaper.
2. Round the upper edges and corners with wood rasp and sandpaper for smooth appearance.
3. Drill a 1" hole through the center of the upper piece. Cut a groove $\frac{1}{4}$ " wide and $\frac{1}{4}$ " deep on the underside of this piece, from the edge of the hole to the edge of the piece. Rub this groove with sandpaper to provide a smooth channel for the cord through the base.

STEM. The stem is made of two pieces 1" x 2" x 18" grooved and shaped as sketched, then glued together.

1. Cut the pieces, then cut a V-groove exactly $\frac{7}{16}$ " wide and $\frac{1}{4}$ " deep the length of each piece.
2. Sandpaper the groove so that all rough spots which might wear the cord are removed.
3. Trim and plane the stem so that it is 1 $\frac{3}{4}$ " square at one end and 1" square at the other. Rub with fine sandpaper to make smooth.
4. Glue the pieces together so the grooves match to form a square hole in the center of the stem for the lamp cord. This hole will be about $\frac{5}{16}$ " square.
5. Round off the last half-inch of the large end of the stem to fit into a 1" hole in the base.

EASY TO MODIFY DESIGN. This plan shows only one design of lamp. You may want to make a *square stem* from four $\frac{1}{4}$ " pieces, or from a single piece 2" square with a $\frac{3}{8}$ " hole through it lengthwise. Or a *round stem* turned on a lathe to any desired pattern, or a plain round stem wrapped in thick cord, reed, or raffia tacked and glued into place and shellacked for an interesting appearance.

You may want to make a *round base* with two $\frac{3}{4}$ " pieces dressed to $\frac{5}{8}$ ", the bottom piece 8" in diameter, the top piece 5" in diameter. Or . . .

A *square base* of similar dimensions to the round one, edges can be rounded. Or . . .

An *octagonal base* from two $\frac{3}{4}$ " pieces, $8\frac{1}{2}$ " and $6\frac{1}{2}$ " square, by cutting off their corners. Cut the design in paper first.

HOW TO ASSEMBLE LAMP

1. Thread the lamp cord through the base and through the stem.
2. Glue stem and base together. Two flat-headed wood screws* through the base into the stem will strengthen the joint.
3. Thread the cord through the pipe nipple. Screw nipple into hole at top of stem so that about $\frac{3}{16}$ " of it extends above the stem. To do this more easily, attach the socket to the nipple temporarily; grasp the socket to turn the nipple.
4. To insure a solid union remove the nipple, add glue and replace nipple.
5. Screw socket base onto the nipple, attach cord to socket connectors and assemble socket.
6. Attach outlet plug to end of cord.
7. Screw the shade holder onto the socket. Fit diffusing bowl onto shade holder. Then turn screws to hold it firmly in place. Insert bulb and place the shade on the completed lamp.

*If wood screws are used, they must not be close to the cord. Put them through the under side of the upper part of the base into corners of the larger part of the stem. Screw in, then remove them, glue the base and stem together, replace the screws and tighten them.

**RURAL ELECTRIFICATION ADMINISTRATION
U. S. DEPARTMENT OF AGRICULTURE**

